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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No. 11823-9

INFORMATION DISCLOSURE

37 CFR 1.97 AND 1.98

STATEMENT UNDER

In re Application of

Cary L. Queen et al.

Serial No.: 07/310,252

Filed: February 13, 1989

For: DESIGNING IMPROVED

HUMANIZED IMMUNOGLOBULINS

Hon. Commissioner of Patents

and Trademarks

Washington, D.C. 20231

Sir:

The following references cited on attached form PTO-1449 are being called to the attention of the Examiner. A copy of each is enclosed. It is requested that the Examiner make them of record.

No.	Patent #	Patent Date	<u> Patentee</u>
AA	4,816,397	3/28/89	Boss et al.
AB	4,816,567	3/28/89	Cabilly et al.

No.	Publication No.	Publication Date	Country
AC	0,239,400	9/30/87	EPO
AD	0,173,494	3/5/86	EPO
AE	0,184,187	6/11/86	EPO
AF	WO89/01783	3/9/89	PCT
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AH	WO87/02671	5/7/87	PCT
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- A2 Ellison et al., <u>Nucleic Acids Res.</u> 10:4071- (1982).

- A3 Hieter et al., Cell 22:197-207 (1980).
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- A5 Takeda et al., Nature 314:452-454 (1985).
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- A24 Bird et al., <u>Science</u> 242:423-426 (1988).
- A25 Huston et al., <u>Proc. Natl. Acad. Sci. U.S.A.</u> 85:5879-5883 (1988).in <u>Progress in Hematology XIV</u>, E. Brown, ed., Grune and Statton, New York (1986) p.283.

The above documents are considered pertinent for the following reasons:

References A14, A15, A16, A17 and A18 describe IL-2 and IL-2 receptors and antibodies thereto, including anti-Tac antibody, the humanization of which is an example in the present application.

References A2, A3, A12 and A22 describe structural aspects of immunoglobulins.

References AA, AB, AD, AE, AG, AH, AI, AJ, A4, A5, A6,

A7, A8, A9, A10, A11, A13, A19, A24 and A25 generally describe recombinant immunoglobulins, particularly chimeric immunoglobulins.

Reference AK describes monoclonal antibodies to IL-2 receptors and also mentions chimeric antibodies, e.g., at page 2, lines 21-27.

References AC, AF, A20, A21 and A23 describe production and use of humanized imunoglobulins (i.e., containing non-native complementarity determining regions).

Reference Al describes immunotoxins.

Respectfully submitted,
TOWNSEND and TOWNSEND

By William M. Smith

Reg. No. 30,223

Date: 5~26-20

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